

impacts to the historic boundary surrounding Worsham Mill, a National Eligible Property protected by the National Historic Preservation Act. Alternate 2 (New Alignment) is deemed “No Adverse Effect” and will be a DeMinimus, which makes it the required alternative from a Section 4(f) perspective.

NCDOT Division 7 and Federal Highway Administration (FHWA) concur with the selection of Alternative 2 as the preferred alternative.

IV. ESTIMATED COSTS

The estimated costs, based on 2012 prices, are as follows:

	Alternative 1	Alternative 2 Preferred
Structure	\$ 622,000	\$ 622,000
Roadway Approaches	\$ 265,000	\$ 612,000
Structure Removal	\$ 54,000	\$ 54,000
Misc. & Mob.	\$ 222,000	\$ 378,000
Eng. & Contingencies	\$ 187,000	\$ 234,000
Total Construction Cost	\$ 1,350,000	\$ 1,900,000
Right-of-way Costs	\$ 39,000	\$ 45,000
Right-of-way Utility Costs	\$ 57,000	\$ 47,000
Total Project Cost	\$ 1,446,000	\$ 1,992,000

V. NATURAL ENVIRONMENT

Physical Characteristics

Water Resources

Water resources in the study area are part of the Roanoke River basin (U.S. Geological Survey [USGS]) Hydrologic Unit 03010103. Three streams were identified in the study area. The physical characteristics of these streams are provided in the 2nd table below.

Water resources in the study area.

Stream Name	Map ID	DWQ Index Number	Best Usage Classification
Wolf Island Creek	Wolf Island Creek	22-48	C
UT Wolf Island Creek	SA	22-48	C
UT Wolf Island Creek	SB	22-48	C